



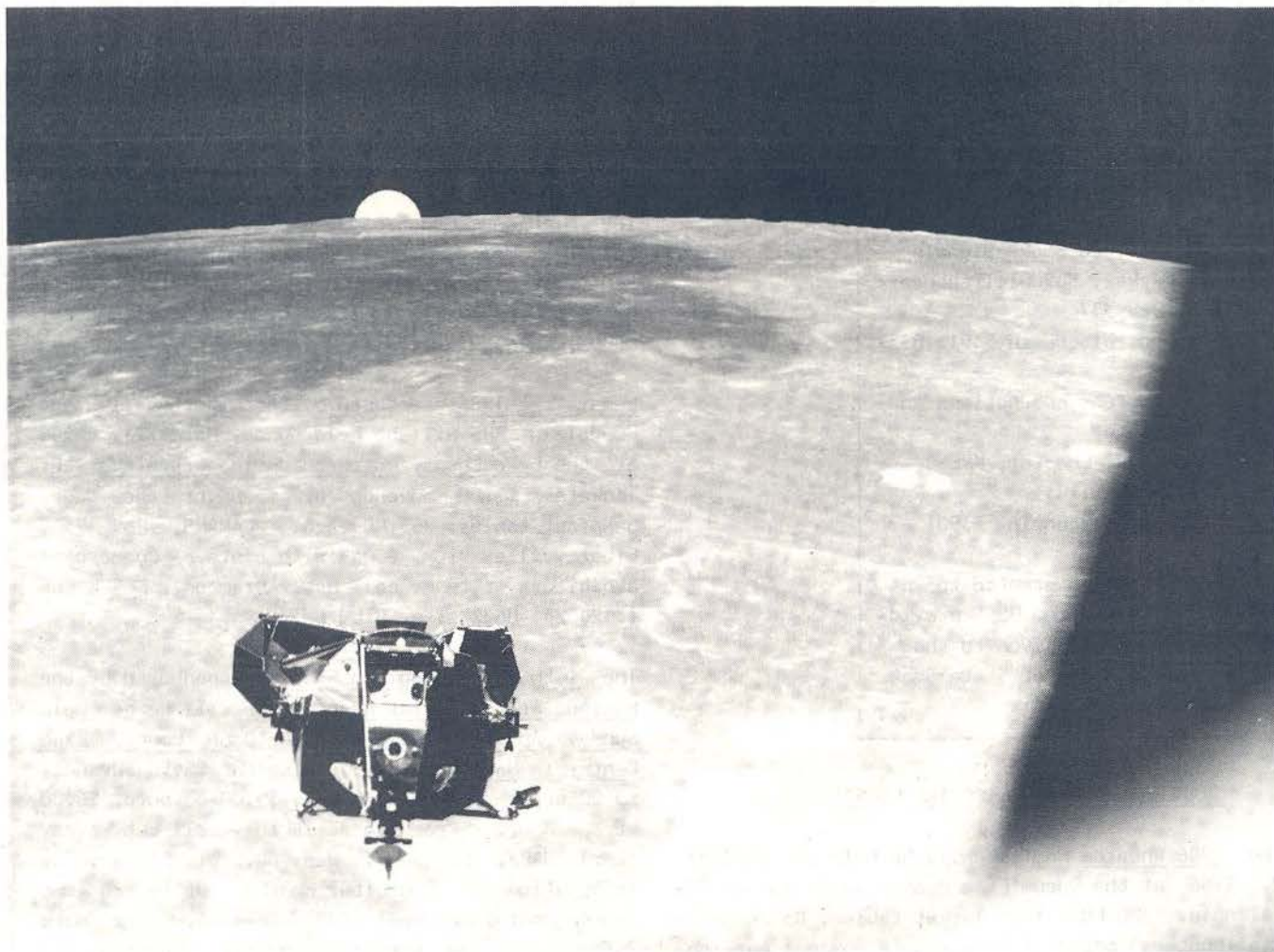
BADGER STATE **Smoke Signals**



Serving Amateur Radio in Wisconsin

Published Monthly Since 1969

Vol. 17 No. 2 - 194th Consecutive Monthly Issue - Baraboo, Wis. - February 1986



LEST WE FORGET... Here's what Astronaut Michael Collins saw from the Command Module on the first manned lunar landing flight - Apollo 11. This photo, taken on July 21, 1969, shows the Lunar Module "Eagle" ascent stage arriving back in lunar orbit, after a successful Extra Vehicular Activity (EVA) on the moon, to rejoin Collins for the journey back to Earth. In the LEM are Astronauts Neil Armstrong, first human to walk on the moon, and Edwin "Buzz" Aldrin. The distant Earth is seen rising over the lunar horizon. NASA photo.

Badger State Smoke Signals supports: The American Radio Relay League (ARRL) - The Wisconsin Nets Association (WNA) - The Wisconsin Association of Repeaters (WAR) - The Amateur Radio News Service (ARNS) - The Courage Handi-Ham System - The Morse Telegraph Club - GEARVAKf (The 'f' is silent)

Badger State Smoke Signals

Officers:

Ken Ebnetter, K9EN, Chairman
 Jim Romelfanger, K9ZZ, Editor
 Jim Decker, WB9UQT, Treasurer

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 print items from BSSS provid-
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SWAPFESTS AND OTHER SOCIAL EVENTS

The 1986 Wheaton Hamfest will be held on February 2, 1986 at the Odeum Expo Center in Villa Park, Illinois. 300 FREE flea market tables, 85 commercial booths, acres of parking. (a nominal parking fee is charged) Tickets \$3.00 advance or \$4.00 at the door.

The Wild Rivers Amateur Radio Club will hold their mid-winter swapfest on Sunday, February 16, 1986 from 10 a.m. to 3:00 p.m. Talk-in on 147.81/21. VE exams will be given, advance registration only. Tables available. For more information, contact Tom Young, KD9FC, Route 5, Box 5239, Hayward, WI 54843.

February 23, 1986: Davenport ARC Hamfest, Davenport, IA.

The Iri County ARC will sponsor their annual Hamfest at the Jefferson County Fairgrounds in Jefferson, WI on Sunday March 16, 1986. Food and refreshments by Jefferson County 4-H. Amateur Radio exams given. Ticket: \$2.50 advance or \$3.00 at door. 6 foot tables: \$3.00 advance or \$4.00 at the door. For advance tickets and tables send s.a.s.e. to Bob Barker, K9RIJ, 724 Burdick, Milton, WI 53563. (608) 868-2871.

The third annual Swapfest sponsored by the Milwaukee School of Eng. Radio Club, W9HHX will be held Saturday March 8, 1986 at 1121 N. Milwaukee St. in Milwaukee WI. Open 8:00 am to 2:00 pm. Admission \$2.00. Tables (4 x 3) \$3.00. Limited table availability - reservations recommended. Please send legal. size s.a.s.e. with funds to W9HHX Fest, P.O. Box 664, Room C-6, Milwaukee WI 53201-0644

The Michigan Crossroads Hamfest will be held Saturday March 22, 1986 at the Marshall High School in Marshall Michigan. SMARS, P.O. Box 934, Battle Creek, MI 94016. or phone Wes Chaney, N8BDM, (616) 979-3433

Lamarsfest 1986 sponsored by the Libertyville and Mundelein ARS will be held Sunday March 23, 1986 at the Lake County Fairgrounds in Grayslake IL. Tickets: \$2.00 advance or \$3.00 at the door. Swapfest tables: \$5.00 each. LAMARS, Box 751, Libertyville, IL 60048 with s.a.s.e Commercial exhibitors write or call Marc Abramson, KC9VW at (312) 255-0642 after 8:00 pm.

The 14th annual Madison Swapfest sponsored by the Madison Area Repeater Association will be held Sunday April 6, 1986 at the Dane County Expo Center in Madison, WI. Admission: \$2.50 advance, \$3.00 at the door. Tables: \$5.00 advance, \$6.00 at the door. (reserve early they sell out every year) MARA, Box 3404, Madison, WI 53704. For information on Exhibitor Booths, write to the above address or call (608) 222-4744. For more information see the flyer and map enclosed for this long time Badger State Booster.

The Ozaukee Radio Club presents its Eighth Annual Swapfest at Circle B. Recreation Center (intersection of Highway 60 and County I) Cedarburg, WI on Saturday, May 3, 1986. Amateur License exams will be administered. (see Test Point) Admission: \$2.00 advance, \$3.00 at the door. Tables: 4-foot at \$3.00. Based on past experience, we strongly recommend that tables be reserved in advance. O.R.C. Swapfest Committee, 101 East Clay St, Saukville, WI 53080.

The DeKalb Hamfest sponsored by the Kishwaukee ARC will be held Sunday, May 4, 1986 at the Sandwich Fairgrounds (Soydam Road, just north of route 34), Sandwich, IL. Tickets: \$2.00 advance or \$3.00 at gate. Inside display tables \$5.00 each. Write: KARC Box 21, Genoa, IL 60135. Dealers Welcome, first come, first served or phone W9TWM (815) 756-6698.

The Central Wisconsin Radio Amateurs, Ltd. Stevens Point Swapfest and Family Picnic will be held Sunday, June 15, 1986.

The 1986 South Milwaukee Swapfest will be held on July 12, 1986.

(We hope this early information will help avoid having 3 section swapfests on the same day next year.)

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages, and/or we can include your flyers. For information on rates and requirements for our advertising pages, and/or for including flyers, please contact K9ZZ or K9EN.

CLUB MEETINGS:

Badger Amateur Radio Society

(W9YT - University of Wisconsin - Madison)

Regular monthly meetings are held at 7:30 PM on the 2nd Wednesday of every month while school is in session, in B314 Electrical Engineering Building.

Central Wisconsin Radio Amateurs, Ltd.

(Stevens Point)

Regular club meetings are held on the second Wednesday of the month.

Four Lakes A.R.C. (Madison WI)

RED CROSS BUILDING, 4860 Sheboygan Ave, Madison, WI., first and third Tuesday each month.

Franklin Middle School Radio Club

(Shawano)

Feb. 17 - ARES - Wis. QSP Party - Nostalgia.
Mar. 17 - AREA - WX net planning.

Green Fox Amateur Radio Club

Meetings are held the third Monday of the month at 7:30 p.m. at the Green Lake Town Hall located at the intersection of county highways K and N.

Kettle Moraine Radio Amateurs

All meetings are held on the SECOND (2nd) Friday of each month.

Manitowoc County Radio Amateurs

MANCORAD meets on the third Wednesday of the month at 7:30 p.m. at Manitowoc Red Cross at 20th and Washington Streets in Manitowoc WI.

Milwaukee Radio Amateurs Club:

All regular meetings of MRAC scheduled for 1986 at Wauwatosa Savings and Loan Building, 7500 West State Street, will be held on the second Thursday of the month.

Ozaukee Radio Club

Meetings held every second Wednesday at 7:30 p.m. in the Saukville Community Center.

Riverland Amateur Radio Club

Regular meetings are held at 7:30 P.M., on the first Wednesday of each month in the Onalaska Community Center in Onalaska, WI.

South Milwaukee Amateur Radio Club

Meetings held at Legion Post 434, Shepard Ave., Oak Creek, on first Wednesday of the month. Auctions held at March and October meetings.

West Allis Radio Amateurs Club

Regular meetings are held on the second Tuesday of each month at St. Francis Savings, 9330 W. Greenfield Ave., at 8:00 P.M.

The Wisconsin Valley Radio Association. (Wausau)

Holds regular monthly meetings on the first Tuesday of the month at 7:30 p.m. The location varies, but information is available on the 146.04/64 repeater in Wausau.

Yellow Thunder Amateur Radio Club:

(Baraboo, WI)

All regular meetings of YTARC are held in room 25 of the Baraboo Civic Center. Meetings start at 7:30 P.M.

The meeting dates for 1986 are: Feb. 11, Mar. 12, Apr. 10, May. 19, Jun. 10, Jul. 16, Aug. 14, Sep. 15, Oct. 14, Nov. 12, & Dec. 11.

Let us know of your club meeting dates, and we will let others know of your meetings.

MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS

Oh what the heck -- items of interest:

Kettle Moraine Radio AssociationKETTLE DRUMS

N9KS, KA9SPD, KA9SPC, KA9SOW, KA9SMD, and others have been active on the RS Russian satellites. KA9SPC has been working European DX, and the others report several stateside QSO's.

George, K9VGE, has been active on Oscar 10 and reports that there is an abundance of good DX on the bird. He worked Brazil and South African stations last week, and 3 weeks ago worked a number of Pacific stations, including VK's, an F08, and a YJ8.

Madison Area Repeater AssociationMARA NEWSLETTER

The postponed (due to snow storm) MARA Christmas party was held at the Heritage House and a great time was enjoyed by all attending. Entertainment was provided by Arden W9IHB, on the drums, John, W9ORS, on the piano, Vern, WB9PTJ, on the trumpet. Rich, N9AMW and XYL Dawn were featured entertainers also, and Clyde, W9HSY played some recorded dance tunes.

Taylor County Area Amateur Radio ClubTaylor County ARES

Congratulations are in order for Vangel Hartwig, Ogema, and Louis Young, Colby who both passed the Novice class Amateur Radio examination administered by WD9IKF at Medford. Louis's sons are Scott, KA9SMP and Dan KA9SMQ, who passed Their Novice Class examinations last summer.

Our thanks to the above mentioned clubs and their bulletins for the information presented. Badger State Smoke Signals will be pleased to exchange information with your club. Please contact K9ZZ or K9EN.

NASA NEEDS YOU!

From "Worldradio", February 1986

Want to participate in a geostationary satellite transponder experiment? NASA is looking for Amateur Radio operators that wish to access a bird that will be orbited 22,500 miles above the earth in 1989.

Experimenters will be given two years' free access. Earth stations will require 10 foot dishes. (28 - 30 GHz uplink. 18 - 20 GHz downlink.)

NASA has invited interested parties to submit an "expression of intent" to conduct an experiment.

Contact is Ron Schertler at NASA (Cleveland), phone (216) 433-4000, extension 792. He has a brochure available. Possibility is for some Amateur group to satellite broadcast communications nationwide? Anyone interested?

Business band (L and Mobile) satellite operation is expected to become a reality within a few years.

THE TEST POINT

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

February 1, 1986	Duluth, MN
February 8, 1986	Wauwatosa, WI
February 15, 1986	Waukesha, WI
March 8, 1986	Stevens Point, WI
March 16, 1986	Jefferson, WI
April 6, 1986	Madison, WI
April 12, 1986	Wauwatosa, WI
May 3, 1986	Cedarburg, WI
June 15, 1986	Stevens Point, WI
November 1, 1986	Stevens Point, WI
Third Sat. Monthly	Loves Park, IL

General rules for all examinations:

All examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs may permit walkins. Check with sponsor to find out if they allow walkins.)

To register for these examinations, you must first secure a copy of the current FCC Form 610 (the one dated June 1984) and fill it out completely (AND CORRECTLY). Get your form from the FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group. Remember-- you must file at least 30 days in advance unless otherwise indicated.

ARRL/VEC examinations require a check for \$4.25 payable to ARRL/VEC.

The FCC now requires applicants to show their original Amateur license to the VEC. As in the past, a copy of your license must be attached to the properly filled out FCC form 610.

Additional information is given below.

Saturday, May 3, 1986 Cedarburg, WI

Ozaukee Radio Club - Swapfest

Contact: Ed Rate, AA9W
9822 N. Andover Court
Mequon, WI 53092

Sunday, April 6, 1986 - Madison, WI
(MARA Swapfest - No admission fee for testees)

Walk-ins Accepted.

Contact: Gary Lincoln, W9UDY
6015 Winnequah Rd.
Monona, WI 53716

March 8, 1986 Stevens Point, WI
June 15, 1986 Stevens Point, WI
November 1, 1986 Stevens Point, WI

ARRL/VEC - Central Wisconsin Radio Amateurs, Ltd.

Contact: Joe Larson N9JW
644 Portage Street
Stevens Point WI 54481

Saturday, Feb. 8, 1986 Milwaukee, WI (9:00am)
Saturday, Apr. 12, 1986 Milwaukee, WI (9:00am)

MILWAUKEE METRO AREA TEST TEAM.

(MRAC - VEC) In room 256 at the Wauwatosa East High School, 74th and Milwaukee Ave. Use the East (74th Street) entrance.

File on a Postal System post card (14c) mailed to:

The Milwaukee Radio Amateurs' Club, Inc
N50 W16328 Pin Oak Court
Menomonee Falls, WI 53012

PLEASE PRINT listing the grade of license you are applying for, your name, address, including Zip Code and your telephone number.

MILWAUKEE VOLUNTEER CORE GROUP
(DeVry VEC)

February 15, 1986 - At the Waukesha County Technical Institute

March 16, 1986 - At the Jefferson Hamfest, sponsored by the Tri-County Amateur Radio Club

All exams will begin at 9:00 a.m. Walk-ins are welcome. We will have Novice thru Extra Class exams, as well as exams for the visually impaired.

If you are interested, please send a POST CARD with your NAME, ADDRESS, TELEPHONE NUMBER and the DATE on which you wish to be examined to:

Syl Janczak WD9JKZ
3127A West Madison
Milwaukee WI 53215

Exams for shut-ins are given by appointment ONLY.

February 1, 1986

Arrowhead RAC, Duluth MN

Contact: Eddy Lonnstrom
2026 Baxter Ave.
Superior, WI 54880

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC).
Held at North Suburban Library on North Second Street in Loves Park, IL.

Contact:
Gene Melton, AK9N
124 S. Chicago Ave. #2
Rockford, IL
(815) 229-7249

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

Small Talk

Richard R. Regent K9GDF
Wisconsin Section Manager ARRL
5003 South 26th Street
Milwaukee WI 53221

CALL BOOKS OUT OF PRINT

Q. When will the ARRL print a new call book?

A. It looks like you'll be waiting for a long time.

Headquarters stopped printing the ARRL Amateur Radio Call Directory with its 1984-1985 issue because there weren't enough sales.

Apparently, the lack of supplements, along with Amateur's feelings that the double-year title meant the information was old, hurt sales, even at the bargain price of \$15.95 each.

Late in 1985, the price on Directories was cut to \$10; I remember because everyone clamored for a copy at my ARRL Swapfest tables.

Finally, the last copies of the Directories were given away by Headquarters as incentives to recruit new ATCs.

But, don't despair, someone told me that the ol' Flying Horse Callbook®, which now lists all of North America, is available for \$25, and the single supplement, issued on June 1st, is \$13 (prices include shipping.)

Buckmaster Publishing, besides having Geographical Index and Name Index Ham Directories at \$25 each, sells all three versions of its Directories for \$18 on Microfiche.

ONE MILLION DOLLARS INSURANCE

Q. What happened to the ARRL Club Insurance program?

A. The League-sponsored Club Liability Insurance coverage of \$100,000 was reduced during 1985 to \$500,000 to keep premium costs down. Headquarters selects from many insurance companies only the best coverage at the lowest rates.

Right now, there are 464 ARRL insured clubs; 350 of these clubs have 75 members or less, 80 have between 75 and 150 members, and the rest have 150 and over.

Good news for those clubs that really need high coverage: the Insurance Company of America (INA), as of December 31, 1985, has been selected to restore the million dollar coverage.

Bad news for clubs with no funds: the premium estimates are up, for clubs with 75 members or less, \$264 per year; over 75 members could be \$350 per year or more (depending on geographical location and number of members).

These are only estimates - all presently insured clubs will get a letter outlining the new coverage and a new premium notice.

Overall, the new coverage has broader protection at a lower premium rate than you would be able to purchase on an individual basis.

Incidentally, this is not the same program as the ARRL "All-Risk" Ham Radio Equipment Program.

For more information, check with John Lindholm, W1XX, Manager, Membership Communications Services Officer at ARRL Headquarters.

QSOS WITH HAWAII

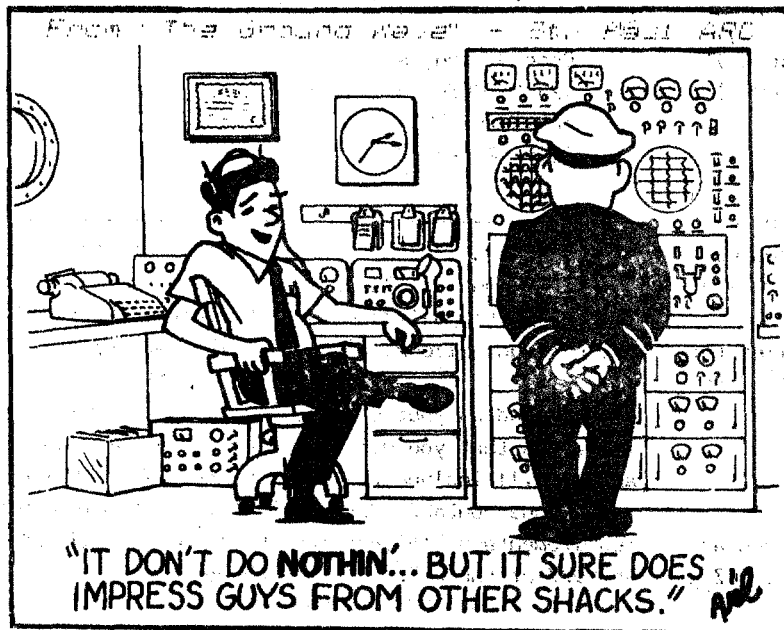
Q. Can I count Hawaii as a country for DXCC?

A. You certainly can count Hawaii as a Country and also as being in the Continent of Oceania.

In addition, if you worked it after August 21, 1959, the QSL can also count as confirming the State of Hawaii. No wonder contacts with Hawaiian Amateurs are popular.

Similarly for Alaska, it counts as a country, is in the Continent of North America, and became a state on January 3, 1959.

Please send your questions to Small Talk, address at top of page.



MORE ON CEL-TEL

A copy of the December, 1985, issue of Badger State Smoke Signals was sent to Rep. Robert Kastenmeier, D-Wis., one of the two authors of H.R. 3378 - the "Electronic Communications Privacy Act of 1985. Here is the entire text of his letter to us in response to the Cellular Telephone item we carried in December:

"Thank you for giving me the opportunity to comment on the article in the December, 1985, issue of "Smoke Signals" regarding H.R. 3378, the Electronic Communications Privacy Act of 1985.

"Unfortunately, as sometimes happens with a 29-page bill on a complex subject, there have been some misunderstandings about what the bill does.

"Much of the information in your article was inaccurate. You and your members will be glad to know that ham radio communications are entirely exempt from the proscriptions of H.R. 3378.

"This has been my intention from the very beginning, in recognition of the long history of public service ham operators provide, particularly during disasters and other emergency situations.

"The American Radio Relay League, the national organization representing the more than 400,000 ham operators licensed and regulated by the FCC, has worked with me in drafting this legislation and has gone on record as satisfied with the bill.*

"Further, the bill would not prohibit reception of public police, fire, and other public service channels and does not prohibit listening to any communications made over a system designed for access by the general public.

"Prohibition of sale or ownership of radio listening devices is not in the bill.

"In addition, I intend to sponsor an amendment to clarify that inadvertant listening, even to private radio communications, would not be prohibited.

"Some have suggested that minimal encryption be required before cellular telephone calls come within the protection of the bill. The Subcommittee will consider this option when the bill is marked up.

"H.R. 3378 is designed to extend the protection of the Wiretap Act (Title III of the Omnibus Crime Control and Safe Streets Act of 1968) to new modes of communication, such as computer transmissions over telephone lines, data transmissions by satellite, as well as cellular telephones.

"I have enclosed a copy of my statement concerning H.R. 3378 as printed in the Congressional Record, as well as a copy of the bill.

"I hope that when you read these materials you and your readers will agree that many of your objections have been met.

"Please feel free to make any additional suggestions to help improve this very important legislation.

"With warm regards,

"Sincerely,"

Robert W. Kastenmeier, Chairman
Subcommittee on Courts, Civil Liberties and
the Administration of Justice

*Statement of Perry F. Williams,
Secretary of the American Radio Relay
League, Submitted to the House Judiciary
Subcommittee on Courts, Civil Liberties and
the Administration of Justice (on December
6, 1985.)

(Underlined text in above letter as supplied
by writer.)

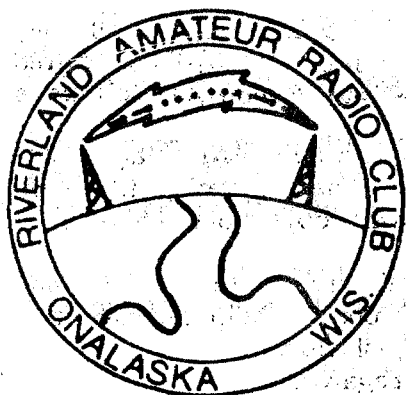
Editor's Note: Please see a letter we
received from Doug Smith, W9WI, regarding
H.R. 3378. It is reproduced elsewhere in
this issue.

ODDS 'N' ENDS
DE K9ZZ

We occasionally receive reports of
slow delivery of BSSS.

If I understand postal rules, third class material may stay in each post office it moves through for a maximum time of 48 hours; then it must be moved. All issues of BSSS are mailed at the same time. In cases where a large number goes to one city, it goes as one bundle. That means, if you are in one of those cities, each person receiving BSSS in that city should get his or her copy on or about the same day. Some cities in this group are Baraboo, La Crosse, and others.

If you are experiencing undue delay in receiving your copy, while everyone else gets his/hers on time, make sure your address and ZIP are correct. If they are, mark the date you received the issue on the mailing cover, sign it, and either take it to your Postmaster, or send it to K9EN, address on page 2.



On January 8, 1986, at 7:39 p.m., the regular monthly meeting of the Riverland Amateur Radio Club was called to order by President Craig Goldbeck.

Minutes of the December meeting were approved as read from the Badger State Smoke Signals. The Treasurer's report was approved.

37/97 Report: On Jan. 1, the repeater committee installed a new 12 volt distribution panel which was built by Van, WA9FIO. A cavity was also removed from the receiver input and installed a tuned cavity on the transmitter coax line. These improvements have stopped all interference with the scanners at the WXOW site.

A safety fuse was installed in the battery charger primary to protect the transformer in case of diode shortage.

The future plans include dressing up some of the wiring within the panel.

Old Business: Solder was still available. It can be purchased after the meeting.

A reminder to all that our Annual Prefix Contest is starting its second month.

Christmas Dinner will be at 7:00 p.m. at Sullivan's in Trempeleau, Wisc. on Sat. Jan. 18. All local Radio Operators are welcome. We will be using the separate dining room this year.

New Business: Elections were held for the Officers for the 1986 year. It was by unanimous vote that the present Officers retain their positions for the upcoming year.

A motion was made and seconded that the club dues for 1986 remain at \$10.00 for the year. The motion was passed.

It was mentioned that KØKTP was looking for beginner code tapes for some prospective Radio Operators in his area.

We have copies of our Constitution available for study if any Club members are interested. Although study of our Constitution is presently being done, a report on its wording and possible changes will take place at our Feb. meeting.

The meeting was adjourned at 8:15 p.m.

No program was scheduled. Total members present was 26.

Respectfully submitted:

Greg A. Miller, Sec. Treas., Riverland ARC

Members Present

Craig Goldbeck	N9ETD
Charlie Burch	-
Brenda Holder	WBØWQJ
John Young	W9KAZ
"Knute" Knutson	W9SFL
Gary Mattie	KA9RQY
Phillip Long	KA9RLI
Duane Fruechte	W9HWQ
Ellsworth Dissmore	W9DOE
Bruce Bjerstedt	K9CUT
Van Elston	WA9FIO
L.F. "Nook" Bentzen	K9EGO
Ray Wakeen	WA9HHM
Greg A. Miller	KA9FOZ
Ron Reed	KD9OY
Gary Countryman	KD9RL
Art Osborn	WØJDC
Jim Mollendahl	W9BI
Jim Burcum	K9LBX
Don Dentandt	W9NQS
Wid Johnson	W9DM
Mike Nelson	KB9RJ
Bob Pluntz	WD9FKV
Herman Ludvik	W9HJV
Dick Low	KØJYB
Suyeo Yoshizumi	W9KTD

Guests Present

Denise Subuowiak - Michael Brown

Additional Notes

1986 dues were set at \$10.00, a very reasonable amount when you consider that with your membership you receive a subscription to Badger State Smoke Signals. Dues are due by the March meeting, so please get it sent in so we can continue your membership. If you want to send it by mail, send it to:

Greg A. Miller, 2522 Wood Street
La Crosse, Wisc. 54603

Mark your check with "1986 dues, RARC" and make it payable to Riverland ARC.

Your NEW CLUB OFFICERS are your old Club Officers. Yes, we have been re-elected for a second term. If you have any questions about your club, get hold of one of us. PRESIDENT: CRAIG GOLDBECK, N9ETD; VICE-PRESIDENT: RICK WILLIAMS, KV9U; SECRETARY-TREASURER: GREG MILLER, KA9FOZ.

"We are here to serve you."

DE Jim, K9ZZ.....

Imagine our surprise (pleasant, indeed!) when we saw the January, 1986, issue of 73 Magazine, and found that BSSS was chosen Newsletter of the Month.

Referring to our October, 1985, issue, 73 said:

"Imagine our surprise when we opened the latest Badger State Smoke Signals - and a pair of 3-D glasses fell out! The glasses, donated by a local television station, allowed us to see the Yellow Thunder ARC's Field Day as if we were actually there! To our knowledge this is the first time that 3-D pictures have appeared in a radio club newsletter.

"But the flashy pictures are not the only reason that Smoke Signals is this month's winner. We've been consistently impressed by the quality and breadth of the coverage given Amateur Radio by Editor Ken Ebnetter K9ZZ (sic).

"Smoke Signals is a publication that serves all of the radio clubs in Wisconsin, so Ken obviously has a great deal of information to draw from. Each issue we've seen has been lively reading, and we'd like to congratulate Ken and his crew for putting out such a lively publication."

(To enter your club's newsletter in 73's Newsletter of the month contest, send it to 73 Magazine, Editorial Offices, 80 Pine Street, Peterborough NH 03458, Attention: Newsletter of the Month.)

A letter from Larry Price, W4RA, Statesboro GA, President of the American Radio Relay League, reads thus:

"Dear Jim:

"Lots of club groups around the country send me a courtesy copy of their bulletin or newsletter. And I always enjoy reading them to learn of the diverse Amateur activities that are taking place.

"These bulletins vary greatly in style, content, layout, etc.

"But, in thinking back over this last year, I can't think of a one that I receive which appears to be done with more interest, enthusiasm and sheer hard work than Badger State Smoke Signals.

"It's one of the best!

"Keep up the good work in 1986.

"Best personal regards to all the gang."

Sincerely,

Larry E. Price, W4RA
President

We thank both 73 Magazine and Larry Price for the kudos! And, yes, Larry, we'll try to keep up the good work.. Maybe we will make BSSS even better!

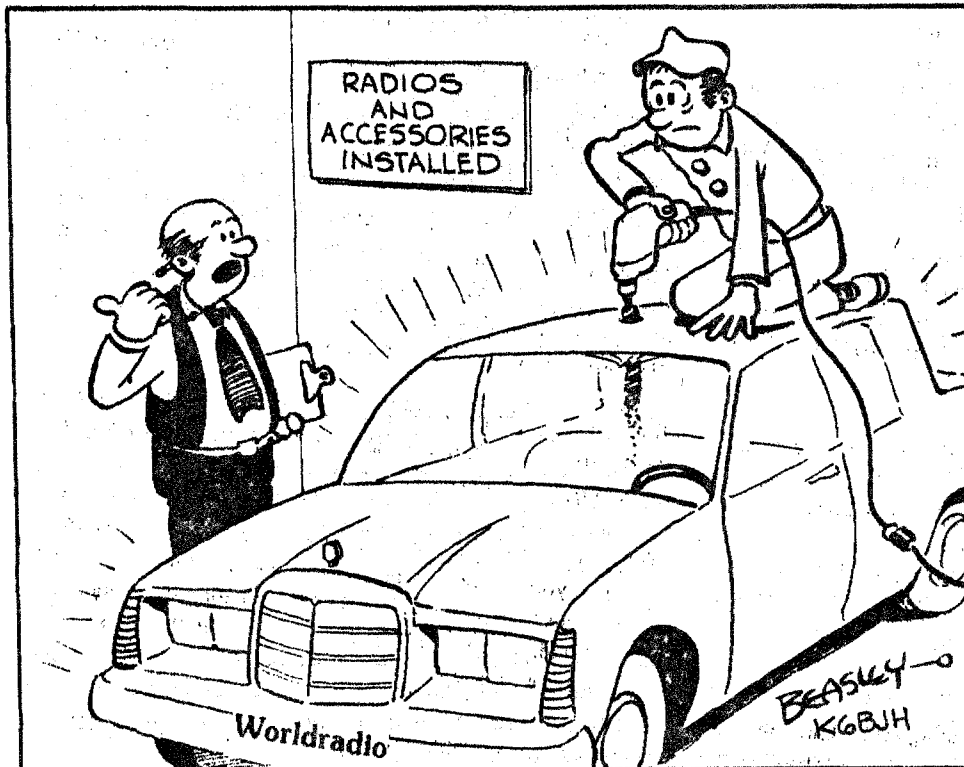
For the record, Ken Ebnetter, K9EN, is Chairman and Publisher; Jim Decker, WB9UQT, is Treasurer ("Keeper of the Funds"), and the Editor is Jim Romelfanger, K9ZZ.

I'm still looking for these tubes: 6HV5, 6AQ5 and 6HZ6. Anybuddy got 'em?

Cellular Telephone.. Do we have a problem with Cel-Tel.. or do we not? The commotion seems to be settling down; I do not know if all the ruckus was a false alarm or just how to look at it.

My initial comments in December, 1985 BSSS were based on what I thought was good information. For the time being, we'll just watch what happens, especially in view of the two letters in this issue, one from Rep. Robert Kastemeier and one from Doug Smith, W9WI.

We close with this: There once was a man from Nantucket.. oops, sorry, we're out of room.. See Ya! K9ZZ.



YOU GOT THE WRONG CAR — THE ROOFTOP ANTENNA GOES ON THE OLD VW BEETLE!

EXAM RESULTS

On Saturday, January 11, 1986, the Milwaukee Volunteer Core Group, under the sponsorship of the West Allis Radio Amateur Club, Inc., had a total of 46 people take exams (at the Midwinter Swapfest in Waukesha). Of these, 21 succeeded in qualifying or upgrading for a new license.

Congratulations are in order for:

Craig Parker, Novice to Technician
 Phillip Greth, no license to Technician
 Mark Jones, no license to Technician
 John Kaiser, KD9BC, Advanced to Extra
 Ronald Howe, KA9TLY, Advanced to Extra
 Howard Kaufman, WA9TOP, General to Advanced
 John Loughry, WB8STI, General to Extra
 Gary Cohen, WB9BDY, Technician to General
 Phillip Mikalofsky, WB9TAE, General to Advanced
 Richard Sherman, KA9TID, Novice to Technician
 William Johnson, K9YEQ, Technician to General
 Robert Gestner, K9YTS, Technician to General
 Richard Hansan, KA9UNH, Novice to Technician
 Howard Walding, KA9RPR, Technician to General
 John Lombardo, N9FBL, General to Advanced
 Patrick Davis, KA9UIQ, Novice to Advanced
 Marianne Huber, KA9UNO, Novice to Technician
 Glenn Hatcher, 20 wpm code certificate
 Dennis Crowe, 13 wpm code certificate
 James Rausch, 20 wpm code certificate
 Gary Sharbuno, 20 wpm code certificate

An exam was given in Braille, and the applicant passed.

The members of the group will travel to most parts of the state to administer exams to the visually impaired or to shut-ins. If interested, please contact Syl Janczak, 3127A West Madison, Milwaukee WI 53215, or call (414) 672-7704.

 ARRL FOUNDATION SCHOLARSHIPS AVAILABLE

 The ARRL Letter
 January 2, 1986

The ARRL Foundation announces the availability of three scholarship awards for the 1986 - 87 school year.

Based on high academic standing, financial need and dedication to public service through Amateur Radio, these awards are provided through the generosity of individual sponsors and donors:

(1) The Perry F. Hadlock Memorial Scholarship of \$500 will be awarded to a student of electrical engineering. It is open to licensed Radio Amateurs of the General, or higher, class.

(2) The Paul and Helen L. Grauer award of \$500 will be given to a student of electronics, communications engineering or related fields who resides in and attends an accredited college or university in the Midwest Division of the ARRL.

(3) The You Have a Friend in Pennsylvania scholarship is available for the first time in the 1986 - 87 academic year. It will be awarded to a League member who maintains academic excellence.

Further information and application forms for these awards may be obtained by writing to the ARRL Foundation Scholarships, 225 Main Street, Newington CT 06111.

 WANT ADS

FOR SALE: Hal video converter RVD-1005, Hal dual-mode keyboard DKB 2010, Antique communications receiver RME-69, Fred Linn W9NZF, N59 W5608 Edgewater, Cedarburg, WI 53012

WISCONSIN SERVICE STATION: Lease or opt to buy. By owner. 8 hose, canopy, self-service with convenience store. Good location in heart of Circus City - Dells country. Excellent investment, good cash flow. (608) 356-4026.

QSL CARDS: Many Wisconsin designs. Fishing, hunting, skiing, railroads, etc. Choose logos, ink colors & type styles. For free sample kit, send #10 39¢ S.A.S.E. Marv Mahre, W0MGI, 2095 Prosperity Ave. St. Paul, MN 55109-3621

WANTED: A 2 meter rig I can run in my truck or in the shack. Jerry Lamb, KA9LUT, 205 14th Ave., Baraboo, WI 53913

Your ad can run here...For a mere fifty cents a line, you, too, can advertise in Badger State! Send your copy and humble remittance to Keeper of the Funds, Jim Decker, WB9UQT, P.O. Box 337, Baraboo, Wisconsin 53913-0337

 We just got a call from Dangerous Dan, N9---, who says he's going to be late for an appointment. He had his teeth cleaned and he's waiting for them to come out of the dryer.



YELLOW THUNDER A.R.C.

The January 13, 1986 meeting of the YTARC was called to order by President, Art Kleefisch, W9WSS, in the Baraboo Civic Center.

The following members and guests were present:

Members:

Art Kleefisch, W9WSS	Baraboo
Duane Grotophorst, KA9HKL	Sauk City
Ken Ebnetter, K9EN	Portage
Jim Decker, WB9UQT	Baraboo
Ken Johnson, K9DZG	Mazomanie
Maurey Gurgel, KA9TBU	Reedsburg
Harry Westlund, K9EHJ	Baraboo
Harry Mayland	Baraboo
Harold Reif	Baraboo
Ruth Familette	Wisconsin Dells

Guests:

Steven Schwoelger, WB9RNL	Wisconsin Dells
Cathy Jones	Baraboo
Niki Leese	Sauk City

The minutes of the previous meeting were accepted as printed in Badger State Smoke Signals. The Treasurers report was accepted. The balance in all accounts was \$187.97.

Communications and announcements: Ken, K9EN read a couple items from Westlink Report and The ARRL Letter.

Old Business: Discussion of the classes to start January 23rd in room 25.

New Business: None.

Buck night: Starting over at \$1.00 since it was won last month. This month's winner was George Halper, W9SUF. Since he was not present, next month's prize will be \$2.00.

The meeting was adjourned by the President.

Following a brief recess, (unfortunately the soda pop machine was out of order) there was an explanation and demonstration of Amateur Packet Radio conducted by Ken, K9EN, and Jim, WB9UQT. Two stations were set up and they contacted each other and then using the North Freedom digipeater contacted other stations, including the station

conducting the demonstration at the MARA meeting in Madison. Both stations were able to make simultaneous connection with the Madison station as he was using software allowing multiple connections. (understand they were connected to 4 stations at the same time.) Those present for the demonstration said they enjoyed the fine program and some indicated they expected to be on Packet Radio shortly.

Respectfully submitted,

Ken Ebnetter, K9EN, Secretary

YTARC BIRTHDAZE:

No YTARC birthdays in February.

SENTENCE, SERMON

We may well go to the moon, but that's not very far. The greatest distance we have to cover still lies within us.

--Charles de Gaulle

H.R. 3378 - DEBUNKING THE RUMORS

(Editor's note: Here's a letter we recently received from Doug Smith, W9WI, Madison, with more on H.R. 3378)

There has been a lot of talk lately on the Amateur bands about a new law being debated in the Congress.

H.R. 3378 is rumored to prohibit autopatch and phone patches, make it illegal to own a police scanner, and even make it illegal to monitor other people's packet radio transmissions! These rumors concerned me, almost as much as the rumor that MY congressman had authored the bill!

Well, I just received a copy of the bill from its author, Rep. Robert Kastenmeier (Wis. 1st district (sic), including the Madison area), and I'm happy to say that about the only rumor that's true is that Kastenmeier wrote it! As the quotation from the Dec. 19th ARRL Letter states in last month's BSSS, the bill would have very little effect on the Amateur service.

The bill contains a very specific exemption for Amateur radio, as well as CB, police, and fire communications, among other services.

While it would ban any form of wiretapping, including the interception of telephone company microwave relay signals, it would have absolutely NO effect on "any communication which is transmitted by an Amateur Radio station operator..."

I would say that the only ominous provision, and I don't mean to minimize my concern over it, is the provision that would establish a \$5,000 fine or 6-month prison sentence for "willfully accessing an electronic communication system..." other than those exempted earlier.

The bill would have the effect of prohibiting you from scanning mobile telephone, cellular phone, and business band communications, or intentionally listening to cordless phone and telephone microwave systems. However, in my opinion (and I am a TV engineer, not a lawyer), these provisions would be nearly impossible to enforce.

For what it may or may not be worth, some of the other provisions of H.R. 3378 would:

>Establish a \$250,000 fine (ouch!) or up to 2 year prison sentence for illegal interception for commercial advantage or malicious destruction of data.

>Expand current telephone privacy regulations to apply to other providers of electronic communications, prohibit tampering with or destruction of data (as well as interception), and apply to data where stored by a provider of electronic communications. (CompuServe, etc.)

>Prohibit the disclosure of a customers' service records by providers of electronic communications to parties not authorized by the customer.

>Establish procedures for law enforcement agencies to get court orders permitting them to violate provisions of the bill and related existing laws.

>Prohibit the installation of tracking devices or "pen registers" (devices which record the numbers dialed from a telephone) without a court order.

I hope this clears up some of the mystery surrounding H.R. 3378. It appears not to be as bad as was feared, but not totally benign.

I'd advise those of you who are still concerned to write your representative and/or senator. You might also note that Rep. F. James Sensenbrenner, Jr. of Wisconsin is also a member of the committee which is dealing with this bill.

Doug, W9WI

EXPLOSION ROCKS TRUFFLE FACTORY

(From GEARVAKf Bulletin, Spring, 1985)

The GEARVAKf Headquarters complex was jarred late yesterday afternoon by a violent explosion at the nearby Gorbinski Farms Truffle Factory.

Several Gorbinski employees working in the factory were slightly injured, according to Mushroom Farms spokesman R. Fleh van Quiche.

Names of the injured (Todd K. Hodd, Rintrick Pinse, StinkyJean Wimple, and Ruth-Wilbur Swingbrew) are being withheld pending notification of next of kin.

All were suffering from blast damage and unusual fungus infestations." They are being treated at the GEARVAKf clinic.

Several visitors touring the Gorbinski Agribusiness complex at the time were shaken up by the blast but were reported to have recovered from the ordeal after a few stiff drinks.

Cause of the explosion is still unknown but spokesman van Quiche theorized that it "may have been caused by an overheated truffle mix being poured cold fungus forms."

An investigation will be conducted sometime next January.

-K8DMZ

Jim, K9---, informs me that he has ordered some new personalized plates for his car marked "JAWS". He says the payments are eating him up.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

P.O. Box 1215

Fond Du Lac, WI 54935

We did not get the report on the West Allis Swapfest WAPR meeting and other information in time for this issue. We are including some items from our exchange papers, and will have the regular WAPR column in next month's issue.

From Kettle Drums

Bruce Herrick, K1TMM, editor.

A number of KMRA'ers have been busy recently with packet radio. The newest packeter is Peter, KM9EV. I had a chance to try the mode for the first time at Pete's QTH, using his new Heath TNC. I was quite impressed, although with the number of Bulletin Board Stations on the frequency, it can take a long time to get an answer from another station. When FM was a new mode for Amateurs, everyone wanted his own repeater. It seems that the same is true of BBS stations. The BBS operations serve a valuable purpose, and I understand that WAPR will address the problem at an upcoming meeting, and will probably try to coordinate them on their own channel. I'm quite anxious to get a TNC of my own. W9XT reports recording over 90 stations on packet in this area!

From The MANCORAD Newsletter.

Now, all the packet activity around here. Also there'll be a packet repeater on the 200 ft. tower on the south side of Manitowoc soon. This is the same tower as the 146.10 repeater location. It should be in operation some time in the first week of February 1986.

NEW TNC

From "Worldradio," February, 1986

MFJ Enterprises, Inc., of Starkville MS, announces the release of their affordable packet radio controller.

At \$129.95, the MFJ-1270 breaks a price barrier to make packet radio affordable by bringing together efficient manufacturing and TAPR's (Tucson Amateur Packet Radio) leading edge technology.

The MFJ-1270 is a nearly identical clone of the widely acclaimed TAPR TNC-2 with identical software and hardware. It's in a new cabinet and includes a TTL serial port for extra versatility.

It's totally general purpose. All that's needed to operate packet radio is a rig and any home computer with an RS-232 serial port and a terminal program.

For Commodore 64, 128 or VIC-20 users, there's an optional starter pack for \$19.95. It puts them on the air immediately and includes interfacing cable, terminal software on tape or disk and complete instructions... everything the users need to get on packet radio. The MFJ-1282 is the disk version and the MFJ-1283 is the tape version. Both are priced at \$19.95 each.

Unlike machine specific TNCs, the general purpose MFJ-1270 never becomes obsolete because the user changes computer or because packet radio standards change. The MFJ-1270 can be used with any computer that has an RS-232 serial port and an appropriate terminal program. If packet radio standards change, software updates will be made available as TAPR releases them.

Also, speeds in excess of 56K baud are possible with a suitable external modem. These faster speeds would be very difficult if not impossible with a machine specific TNC or one without hardware HDLC. Also the MFJ-1270 can be used as an inexpensive digipeater.

Software features: Uses latest AX.25 Version 2.0. Use as few as 3 commands to make contacts. MHEARD command list stations and time heard. Up to 4 station roundtables. Date/time stamp of connections. Connection checking. User definable message for auto responses. 82 software commands.

Hardware features: Hardware HDLC for full duplex. 280A CPU. 16K EPROM, expandable to 32K. 16K RAM. True data carrier detect. Use up to 9600 baud terminals. Battery backed-up RAM. Counter and software for self-calibration. Tuning indicator port for HF and satellite operation. LEDs indicate connection, packet tone received, packet acknowledgement, power on, and transmitter activated.

The MFJ-1270 Packet Radio TNC2 and MFJ-1282 / MFJ-1283 starter packs come with a double guarantee. They can be ordered from MFJ for a 30 day trial period. If they don't satisfy your needs, return it for a full refund, less shipping. If you keep them you can be assured of continued service with MFJ's full one year unconditional guarantee.

For additional information, call toll free (800) 647-1800.

WISCONSIN NETS ASSOCIATION LTD.**WISCONSIN NETS**

NET	WNA	FREQ	UTC	CST	MANAGER
BWN	YES	3984	1200Z	0600	WD9IID
BEN	YES	3985	1800Z	1200	WB9ESM
WSSN	YES	3985	2330Z	1730	WA9ZTY
WNN	YES	3723	0000Z	1800	KA9DBP
WGSN	YES	3645	0030Z	1830	N9BDL
WIN-E	YES	3662	0100Z	1900	WB9ICH
WIN-L	YES	3662	0400	2200	KC9CJ
NMTN	YES	34/94	0030Z	1830	KA9SKU
WCWTN	YES	31/91	0030Z	1830	KA9RII
GR.BAY	NO	72/12	0245Z	2045	WB9NRK
			THU	WED	
WRN	NO	3625	0000Z	1800	K9UTD
			RTTY Mon. Wed. Fri. UTC		
			Sun. Tue. Thu. Local time		

 Wisconsin Section Manager's Notes
 December 1985

 Richard R. Regent K9BDF
 5003 South 26th Street
 Milwaukee WI 53221

SEC: W9DAK. STM: K9UTD. ACC: KA9FDZ. DM: WB9JSM.
 DDC: NC9B. PIO: K9ZZ. SGL: A69V.

Did you just skip reading the list of eight Leader-ship Appointees? These trained Wisconsin specialists are eager to help you to benefit from your ARRL membership or to insure you have fun in Ham Radio; ask me about the duties behind their titles in case you forgot.

New ATCs are W9RYA, K9EVH and WB9EDA; all willing to help with your technical questions or RFI problems.

Greetings to new NM of the North Woods Traffic Net, KA9SKU, who has replaced Carl, W9JSF. Carl increased traffic and checkins during his year as NM, thanks for the hard work.

Wisconsin Slow Speed Net Manager, W9BDL, will send you a beautiful computer-generated certificate for checking into the net, try any evening at 6:30 p.m. on 3645 KHz.

Careful monitoring heard WA9ZTY on WIN/E.

Packet Radio adds WB9NNJ and WB9SMM to the list of Wisconsin packeteers. For Packet information and newsletter contact Wisconsin Amateur Packet Radio Association, POB 1215, Fond du Lac WI 54935.

Clubs: As you schedule your hamfest and events for 1986 - 87, please send me a note so that I can include the correct date in this column and can tell others that ask for that information.

Volunteer Examination sponsors are reminded to promptly let the Badger State Smoke Signals know of your exam schedule. The BSSS newsletter does all of us a service by publishing a current exam list; contact K9ZZ or K9EN for the details.

New officers Mancorad RC: Rod Pajula, Pres.; WB9RJD, V.P.; W9BZY, Treas.; WB9DBX, Sec.

North American Teleconference Radio Net on Milwaukee 145.13 repeater had 77 checkins and many more were listening.

According to W9DLY, the HaywardSpooner Swapfest will be held February 16th.

March 8th, Milwaukee School of Engineering RC Swapfest at 1121 N. Milwaukee St.

March 9th, Wisconsin QSO Party starts at noon.

March 16th, Tri-County ARC Hamfest at Jefferson County Fairgrounds.

Be grateful for luck, but don't count on it.

CAND REPORT FOR DECEMBER 1985 X 1878 MESSAGES IN 31 SESSIONS X D9RN REPRESENTED 100 PERCENT X WISCONSIN STATIONS WA9WYS W9DDV W9DFRI KC9CJ KA9RII W9CBE N9BGE K9RTB - JERRY WSKLV NM.

(Note: CAND had 11,179 messages handled during 1985.)

D9RN REPORT FOR DECEMBER 1985 X 974 MESSAGES IN 1505 MINUTES X 62 SESSIONS WISCONSIN 98 PERCENT STATIONS KA9RII N9BGE W9CBE W9DDV WA9WYJ N9AUG KC9CJ W9IEM N9EAS W9DFRI X 73 - DALE WA4JTE NM.

UNDER FIFTY TRAFFIC - December 1985: W9UW 49; K9B8 40; K9FHI 31; WB9JSM 23; W9CXY 15; WB9NRK 7. Late November: W9FDY 45; KY9P 3.

 TRAFFIC UNDER 50 POINTS

(November) K9FHI 48; K9UTD 47; N9BCX 46, NB9H 35; WB9JSM 30; KF9K 25; K9B8 25; K9BED 19; WB9RGE 7; W9UW 3; WB9NRK 3. (October) NB9H 19.

 WISCONSIN INTRASTATE NET - EARLY

 Larry Guthu WB9ICH
 Net Manager
 706 West Jennings
 New London WI 54961

Well, here it is, time for some more written words of wisdom from your frozen net manager.

I would first like to wish everyone a very Happy New Year, and hope that you all had a fine holiday season. I'm sure that you all got what you wanted from ole St. Nick, right? Well, I sure wish that he would have brought some better band conditions, but despite the conditions we have been able to persevere, thanks to all those experienced CW traffic handlers.

According to the stats here, we have still been able to average 10 checkins per session and pass better than 50% of the traffic offered. Keep up the fine work there gang, it's really appreciated.

I hate to sound like a broken record here, but we could still use some help for those going to 9RW. I have three positions open yet, so if you can help out, let me know. I also have an opening on Thursday evenings for an NCS spot since KC9CJ has been busy with his job and studies.

Well, I don't know about the rest of you, but I'm already looking forward to spring so that we can look at something else rather than this white junk. I guess I'm just dreaming, since we have a long way to go yet before then, but we can at least think about it anyway.

Well, I guess that is about all I have for this time around. Have a healthy and happy 1986 and let's try to keep up that WINning spirit despite the cold, snow and bad band conditions.

73, Larry, WB9ICH, NM

GLASSBORO REPORT

(Wisconsin Slow Speed Net)

Lee G. Andreas N9BDL
Net Manager
Rte 1 7600 Hwy. D East
Lake Tomahawk WI 54539

1985 is history. All of the traffic handlers in Wisconsin are leaning back and resting a bit after the big Christmas traffic rush. The sore throats, writers cramp, and blisters on the keying fingers should be healed by the time you read this.

As usual, it was a hectic period of time. Most ARL Sixty One messages were delivered on time. Let's all hope that, by next December, the 80 meter band will revive so that all nets can carry out their functions.

I wish to thank all those who struggled during December as Net Control Stations for putting up with marginal band conditions. And to those who tried their best to check in and pass some holiday traffic, thanks for trying. Maybe next year we should all ask Santa for better propagation conditions. If nothing else, it made for some interesting times.

The New Year has brought some changes to the WNA Ltd. affiliated nets. May I be the first to welcome, in print, two new Net Managers. To Doug, KA9SKU, the new manager of the North Woods Traffic Net, and to Lisa, KA9RII, the new manager of the West Central Wisconsin Traffic Net, welcome. If you have not noticed, no one asked you to submit to a sanity test.

A word of thanks is due Carl, W9JSF, who retired as NM of the WNTN. He really did a fine business job after taking the net over from me.

Now for some news of the WSSN. 1985 was not a record breaking year, but then it wasn't chopped liver either.

I will start out with some bright spots. More than 30 QNI certificates have been printed and sent out to those Hams who checked into this net. This award has been written up in past issues of Badger State

Smoke Signals. The certificate covers those who checked in since July. There are a few stations who have checked in since I got the latest batch out in the mails. To them, please be patient. I'll be getting at another run in a month or two.

The five top stations in 1985 for checking into WSSN are: Bill, NF9A, with 179 QNI; Ralph, K9BED, with 150; Dwight, AB9B, at 124; Bruce, N9DSL at 103; and Larry, WB9ICH with 92. My 333 QNI does not count. I HAVE to be there. Top NCS for '85 was Rick, KV9U, with 51 sessions. That is being reliable. Three other stations had 44 or more sessions. Again, my total does not count.

During last year, 61 different stations checked into the net. My thanks to all those Hams who took the time and made the effort to be there at 6:30 p.m. local time. All of the present officers of the WNA, except one, made an appearance in '85. I won't mention any names, but do the office of treasurer ring a bell?

The statistics for the last quarter of 1985 are:

QNI	QTC	QSP	QTR
459	185	117	1561

Thought for 1986: By delivering a message to someone in your community, you will be making a favorable impression on that person. By originating a message from someone in your community for delivery elsewhere, you will be making a lasting impression. If we impress enough people, we will not have as many problems with the Ham image.

People associate a three element triband beam antenna with TVI and all kinds of other interference, even though it may not be true. They do not associate the antenna with traffic handling if you do not handle traffic for them.

73, Lee, N9BDL, NM

WEST CENTRAL WISCONSIN TRAFFIC NET

Lisa Harper, KA9RII
Net Manager
514 Fall Street
Eau Claire WI 54703

Since November 1, 1985, when I became Net Manager of the WCNTN, we have welcomed 3 new members to the net: Steve Harr, N9FIN; Bob Jahnke, KA9OPS, and Dan Meyer, KB9W. I'd like to thank all stations for their participation and support.

The Net Controls have been outstanding: Diane, ND9DND; Ron, WB9WKO; Lisa, KA9RII; Phil, KA9LJK; Jim, N9DHT; Bill, NB9H; Pat, KA9RZL, and

Todd, N9EQP. Everyone knows that a good NCS is the foundation of a good net!

Upon careful scrutiny of the map, I was surprised to realize that the WCNTN covers 15 counties: Eau Claire, Chippewa, Dunn, Barron, Pepin, La Crosse, Pierce, Jackson, Polk, St. Croix, Buffalo, Clark, Wood,

Trempealeau, and Taylor. I knew we were wide coverage, but.....!

We had a red - letter day January 18: KA90BP net controlled his first 2 - meter net (after a little persuasion.)

Am sad to report Orlin Mikelson, WB9KAR, a Silent Key.

Many thanks to all stations who continue to make the WCNTN an outstanding net. Your efforts make my job as Net Manager a pleasure.

73, Lisa, KA9RII

AMATEUR RADIO AND EMP

October 1985

From ARRL Field Forum

The following letter from N3NL to QEX (The ARRL Experimenter's Exchange newsletter) should be of interest to those of you who are involved in the technical end of Amateur Radio or in emergency communications. Note: Queries about QEX should be addressed to QEX, ARRL, 225 Main Street, Newington CT 06111.

"Technical literature, including a QST article (Aug. 1981, p. 41), has presented the possibility of an electromagnetic pulse (EMP) attack. If such an attack were to occur, a nuclear weapon, or weapons, would be exploded in space above the United States. The electromagnetic pulse from the explosion is anticipated to burn out virtually all of the U.S. civilian solid-state electronic equipment.

"If Amateur Radio is to provide communications after such an event, a transceiver resistant to EMP will need to be designed to include at least some of the following attributes:

- High - frequency (HF) low - power operation
- CW capability
- Vacuum - tube technology for all stages
- Shielding (as close to 'tempest' quality as possible)
- Built in nanosecond transient - protective devices
- Over - Rated circuit components (to accommodate excess current and voltage)
- Heavy point - to - point wiring instead of a circuit board
- Circuit layout that can be serviced with a fire - heated soldering iron
- Integration of carbon block RF absorbers into the shielding
- Battery power operation
- Rapidly deployable antenna system (this would be stored in a shielded container when not in use)
- Shielded fire-resistant container for storing the transceiver
- Shielded stock of spare parts

"It would be a natural step for the readers of QEX to design the EMP resistant transceiver. Are there any

volunteers?

Nicholas Leggett, N3NL, 1500 Mass. Ave., N.W., Apt. 610, Washington, DC 20005.

Any thoughts to share? N3NL and QEX are BRV.

Packet Radio demonstrations were given on January 12, 1986, to the Madison Area Repeater Association meeting in Madison, WI and to the Yellow Thunder Amateur Radio Club meeting in Baraboo, WI. (Yes the did work each other.) From all reports, both of these demonstrations were well accepted, and many present said they were planning on getting TNC's, and becoming active in Packet Radio.

HUMANE TRAPS FOR SHORT ANTENNAS

(From GEARVAKF Bulletin, Spring, 1985)

Expect to see a resurgence in full size antennas if FCC yields to Sierra Club pressure to institute and enforce humane type traps for all physically shortened antennas.

Sierra Club spokesman, Crewell M. Hartless, said that although he is not an expert in electronic theory, it is his opinion that, "What are commonly called 'heterodynes' are, in reality, the agonizing sounds of hapless second and third harmonics being indiscriminately tortured by the Electron Hold Trap commonly used today."

"If we are not careful," Hartless said, "Harmonics will go the way of the Passenger Pigeon, and you know how that influenced the growth of communications in its infancy."

(Ed. note -- If you wish to support Mr. Hartless, he can be reached at his place of business. Address your letters to: Full Size Single Band Antenna Company, Division of Copper Wire Salvage Ltd., Hungry Hollow, Ohio 43078-9999-A3.)

-WDBAJC

* NOTICE *
* To make things easier for all of us, please notice *
* this important notice about notices. You may have *
* noticed the increasing number of notices for you to *
* notice. We notice that some of our notices have *
* been noticed. We also notice that some of our *
* notices have not been noticed. This is very *
* noticeable. It has been noticed that the response to *
* the notices has been noticeable. This notice is to *
* remind you to notice the notices and respond to *
* notices because we don't want the notices to go *
* unnoticed. (Minnesota MARS 1976) *

To our advertisers: We apologize for the absence of the Booster Page this month. We did not get them from the printer in time, but you will still get 12 months of service from BSSS.

73 de bsss staff

14th
Annual

MADISON SWAPFEST

Madison, Wis.

Sponsored by Madison Area Repeater Association - WB9AER - Madison, Wis.

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PLEASE RESERVE _____ TABLES AT \$5.00 Each - Table Fee Does **Not** Include Admission Fee!

TOTAL AMOUNT ENCLOSED \$ _____

If there are no more tables available do you still wish to
purchase tickets YES() NO()

A.C. Outlets available to Booth Exhibitors ONLY.

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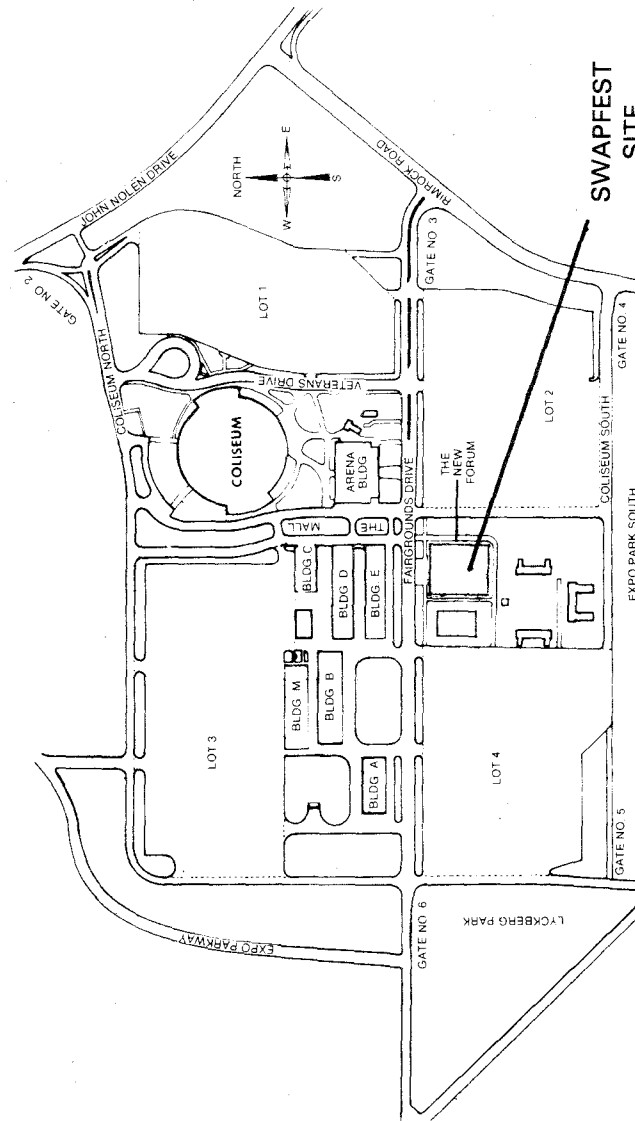
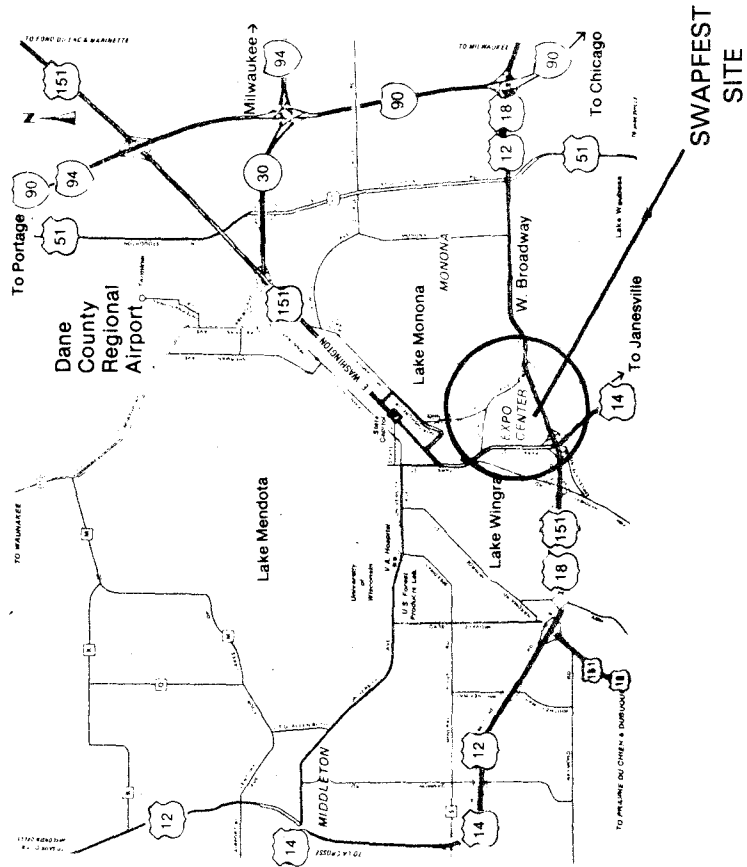
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NEXT DOOR TO DANE CO. COLISEUM — Approx. 6 miles west of Hwy. 12 & 18 and I-90 Interchange. Just follow "Coliseum" Signs to Dane Co. Expo Center located ½ mile north of Hwy. 12 & 18 Beltline at "MC" Exit on Madison's South Side. Talk in on 16-76.

FCC Exams will be given. Pre-registration is recommended, however walk-ins are welcome. For registration info write: Gary Lincoln, W9UDY, 6215 Winnequah Rd., Madison, WI 53716. It is not **mandatory** to purchase a Swapfest Ticket when you enter the Forem Building to take the exams. You will be issued a separate pass for **exam only**.



MADISON SWAPFEST LOCATION MAPS



Published Monthly Since 1969

SUBSCRIPTION INFORMATION

Dear Fellow Radio Amateur:

If you are not a regular recipient of Badger State Smoke Signals, you are invited to join our regular readers.

Smoke Signals has been published monthly for over 16 years. Originally published as the club paper for the Yellow Thunder Amateur Radio Club, it has been, for the past three years, a statewide publication.

We carry current Amateur Radio news, news of the Yellow Thunder ARC, Riverland ARC, Wisconsin Nets Association, Wisconsin Amateur Packet Radio Association, American Radio Relay League, and other clubs and groups in and around Wisconsin.

You will be kept apprised of what is happening in our hobby - locally, regionally, nationally and internationally.

You'll find ARRL Section news, feature articles by well-known Amateurs in Wisconsin and elsewhere, humor, news of upcoming Amateur examination sessions in the monthly "Test Point", and much more.

Information is carried from ARRL Bulletins, The ARRL Letter and the Westlink Report, along with items of interest from exchange newsletters and the Amateur Radio News Service Bulletin. You'll even find an occasional tidbit from the GEARVAKf Bulletin (the 'f' is silent.)

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If you are active on the traffic nets and want to receive Smoke Signals as a Wisconsin Nets Association Booster, please contact WNA Treasurer Mike Hamman, KA9BHL, Rte. 5, Box 668, Tomahawk WI 54487 to find out how to become a WNA Booster.

Packet Radio enthusiasts are invited to join the Wisconsin Amateur Packet Radio Association (WAPR). For information, contact Gary Gilbertson, WB9SDA, Rte. 1 Box 53, Brownsville WI 53006.

Badger State Smoke Signals is produced by Amateurs for Amateurs, and is completely volunteer and non-profit. It is supported totally by its advertisers and by subscriptions. Articles and suggestions are always welcome. Please send them to Jim Romelfanger, K9ZZ, Editor, 301 1/2 7th Street, Baraboo WI 53913-2234.

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But with the bills that keep accruing,
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--Donna Evleth.

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